Met Asp Trp Pro His Asn Leu Leu Phe Leu Leu Thr Ile Ser Ile Phe Leu Gly Leu Gly Gln Pro Arg Ser Pro Lys Ser Lys Arg Lys Gly Gln Gly Arg Pro Gly Pro Leu Ala Pro Gly Pro His Gln Val Pro Leu Asp Leu Val Ser Arg Met Lys Pro Tyr Ala Arg Met Glu Glu Tyr Glu Arg Asn Ile Glu Glu Met Val Ala Gln Leu Arg Asn Ser Ser Glu Leu Ala Gln Arg Lys Cys Glu Val Asn Leu Gln Leu Trp Met Ser Asn Lys Arg Ser Leu Ser Pro Trp Gly Tyr Ser Ile Asn His Asp Pro Ser Arg Ile Pro Val Asp Leu Pro Glu Ala Arg Cys Leu Cys Leu Gly Cys Val Asn Pro Phe Thr Met Gln Glu Asp Arg Ser Met Val Ser Val Pro Val Phe Ser Gln Val Pro Val Arg Arg Arg Leu Cys Pro Pro Pro Pro Arg Thr Gly Pro Cys Arg Gln Arg Ala Val Met Glu Thr Ile Ala Val Gly Cys Thr Cys Ile Phe  aggegggcag cagetgcagg etgacettge agettggegg aatggaetgg 50

cctcacaacc tgctgtttet tettaccatt tecatettee tggggetggg 100

ccageccagg agececaaaa geaagaggaa ggggeaaggg eggeetggge 150

ccetggeece tggeeeteac caggtgeeac tggaeetggt gteaeggatg 200

aaacegtatg ecegeatgga ggagtatgag aggaacateg aggagatggt 250

ggeeeagetg aggaacaget cagagetgge ecagagaaag tgtgaggtea 300

acttgeaget gtggatgtee aacaagagga geetgtetee etggggetae 350

ageateaace aegaeeeeag eegtateeee gtggaeetge eggaggeaeg 400

gtgeetgtgt etgggetgtg tgaaeeeett eaceatgeag gaggaeegea 450

geatggtgag egtgeeggtg tteageeagg tteetgtgeg eegeegeete 500

tgeeegeeae egeeeegeae agggeettge egeeagegg eagteatgga 550

gaeeateget gtgggetgea eetgeatett etgaateaee tggeeeagaa 600

geeaggeeag eageeegaa eeateeteet tgeaeetttg tgeeaagaaa 650

ggeetatgaa aagtaaaeae tgaettttga aageaag 687

Met Thr Leu Leu Pro Gly Leu Leu Phe Leu Thr Trp Leu His Thr Cys Leu Ala His His Asp Pro Ser Leu Arg Gly His Pro His Ser His Gly Thr Pro His Cys Tyr Ser Ala Glu Glu Leu Pro Leu Gly Gln Ala Pro Pro His Leu Leu Ala Arg Gly Ala Lys Trp Gly Gln Ala Leu Pro Val Ala Leu Val Ser Ser Leu Glu Ala Ala Ser His Arg Gly Arg His Glu Arg Pro Ser Ala Thr Thr Gln Cys Pro Val Leu Arg Pro Glu Glu Val Leu Glu Ala Asp Thr His Gln Arg Ser Ile Ser Pro Trp Arg Tyr Arg Val Asp Thr Asp Glu Asp Arg Tyr Pro Gln Lys Leu Ala Phe Ala Glu Cys Leu Cys Arg Gly Cys Ile Asp Ala Arg Thr Gly Arg Glu Thr Ala Ala Leu Asn Ser Val Arg Leu Leu Gln Ser Leu Leu Val Leu Arg Arg Pro Cys Ser Arg Asp Gly Ser Gly Leu Pro Thr Pro Gly Ala Phe Ala Phe His Thr Glu Phe Ile His Val Pro Val Gly Cys Thr Cys Val Leu Pro Arq Ser Val

gccaggtgtg caggccgctc caagcccagc ctgccccgct gccgccacca 50 tgacgctcct ccccggcctc ctgtttctga cctggctgca cacatgcctg 100 gcccaccatg acccctccct cagggggcac ccccacagtc acggtacccc 150 acactgctac teggetgagg aactgeeect eggeeaggee eeeceacace 200 tgctggctcg aggtgccaag tgggggcagg ctttgcctgt agccctggtg 250 tccagcctgg aggcagcaag ccacaggggg aggcacgaga ggccctcagc 300 tacgacccag tgcccggtgc tgcggccgga ggaggtgttg gaggcagaca 350 cccaccagcg ctccatctca ccctggagat accgtgtgga cacggatgag 400 gaccgctatc cacagaagct ggccttcgcc gagtgcctgt gcagaggctg 450 tatcgatgca cggacggcc gcgagacagc tgcgctcaac tccgtgcggc 500 tgctccagag cctgctggtg ctgcgccgcc ggccctgctc ccgcgacggc 550 teggggetee ceacacetgg ggeetttgee ttecacaceg agtteateca 600 cgtccccgtc ggctgcacct gcgtgctgcc ccgttcagtg tgaccgccga 650 ggccgtgggg cccctagact ggacacgtgt gctccccaga gggcaccccc 700 tatttatgtg tatttattgt tatttatatg cctcccccaa cactaccctt 750 ggggtctggg cattccccgt gtctggagga cagccccca ctgttctcct 800 catctccagc ctcagtagtt gggggtagaa ggagctcagc acctcttcca 850 gcccttaaag ctgcagaaaa ggtgtcacac ggctgcctgt accttggctc 900 cctgtcctgc teceggette cettacecta teactggeet caggeceege 950 aggetgeete tteecaacet eettggaagt acceetgttt ettaaacaat 1000 tatttaagtg tacgtgtatt attaaactga tgaacacatc cccaaaa 1047

ggcagcaggg accaagagag gcacgcttgc ccttttatga catcagagct 50 cctggttctt gctccttggg actctgggac ttacaccagt ggcacccctg 100 gctcnnnnn nnnnnaattc ggtacgaggc tggggttcag gcgggcagca 150 gctgcaggct gaccttgcag cttggcggaa tggactggcc tcacaacctg 200 etgtttette ttaccattte catetteetg gggetgggee ageecaggag 250 ccccaaaagc aagaggaagg ggcaagggcg gcctgggccc ctggtccctg 300 gccctcacca ggtgccactg gacctggtgt cacggatgaa accgtatgcc 350 cgcatggagg agtatgagag gaacatcgag gagatgttgg cccagctgag 400 gaacagttca gagctggccc agagaaagtg tgaggtcaac ttgcaqctqt 450 ggatgtccaa caagaggagc ctgtctccct ggggctacag catcaaccac 500 gaccccagcc gtatccccgt ggacctccgg aggcacggtg cctgtgtctg 550 ggcttgtgtg aaccccttca ccatgcagga ggaccgcagc atggtgagcg 600 tgccggtgtt cagccaggtt cctgtgcgcc gccgcctctg cccgccaccg 650 ccccgcacag ggccttgccg ccagcgcgca gtcatggaga ccatcgctgt 700 gggctgcacc tgcatcttct gaatcgacct ggcccagaag ccaggccagc 750 agcccgagac catcctcctt gcacctttgt gccaagaaag gcctatgaaa 800 agtaaacact gacttttgaa agcaaaaaaa 830

FIGURE 5

cacggatgag gaccgctatc cacagaagct ggccttcgcc gagtgcctgt 50 gcagaggctg tatcgatgca cggacgggcc gcgagacagc tgcgctcaac 100 tccgtgcggc tgctccagag cctgctggtg ctgcgccgcc ggccctgctc 150 ccgcgacggc tcggggctcc ccacacctgg ggcctttgcc ttccacaccg 200 agttcatcca cgtcccgtc ggctgcacct 230

1MDWPHNLLFLLTISIFLGLGOPRSPKSKRKGOGRPGPLAPGP	16 SLEAIVKAGITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSD	66 YYNRSTSPWNLHRNEDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPI	
1MDWPHNLLFLLTISIFLGLGOPRSPKSKRKGOGRPGPLAPGP	43 HQVPLDLVSRMKPYARMEEYERNIEEMVAQLR <u>MSS</u> ELAQRKCEVNLQLWM	93 SNKRSLSPWGYSINHDPSRIPVDUPEARCLCLGCVNPFTMQEDRSMVSVP	
1 MTLLPGLLFLTWLHTCLAHHDPSLRGHPHSHGTPHCYSAEELPLGOAPPH	51 LLARGAKWGQALPVALVSSLEAASHRGRHERPSATTQCPVLRPEEVLEAD	101 THQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCJDARIGRETAALNSVR	
hIL17	hIL17	hlL17	hIL17
hIL178	hIL17B	hlL178	hIL178
hIL17C	hIL17C	hlL17C	hIL17C

FIGURE 7A

### Tue Apr 27 16:58:30 1999 /home/ruby/va/Molbio/carpenda/temp/aa.out

59294	1 MD WPHNILFLIT IS I FLGLGOPRSPKSKRKGOGRPGPLAPGPHQVPL
62377	1 MTLLPGLLFLTWLHTCLAHHDP.SLRGHPHSHGTPHCYSAEELPLGOAPP
59294	48 DLV SRMKPYARM EEYERNIEEMVA OLRNSSELA ORKCEV NL OLW
62377	50 HLL ARGAKWG OALPVALVSSLEAASHRGRHERPSATT OCPVLRPEEVLEA
59294 62377	92 M S N K R S L S P W G Y S I N H D P S R I P V D L P E A R C L C L G C V N P F T M Q E D R S M V S V 100 D T H Q R S I S P W R Y R V D T D E D R Y P Q K L A F A E C L C R G C I D A R T G R E T A A L N S V
59294 62377	142 PVF - SQVPVRRRLCPPP PRTGPCRQRAVMETIAVGCTCIF 150 RLLQSLLVLRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPRSV

FIGURE 7B

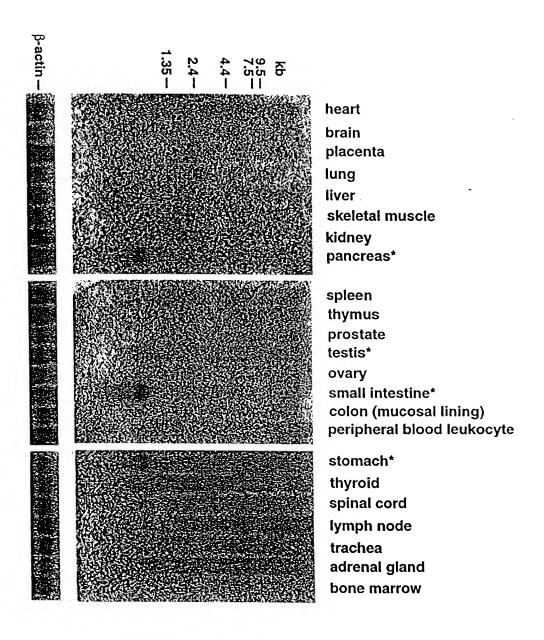
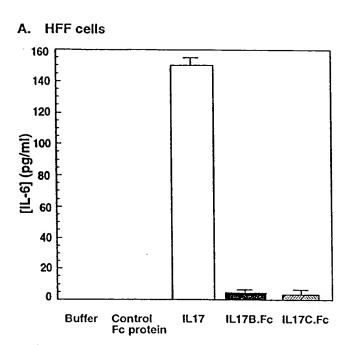


FIGURE 8



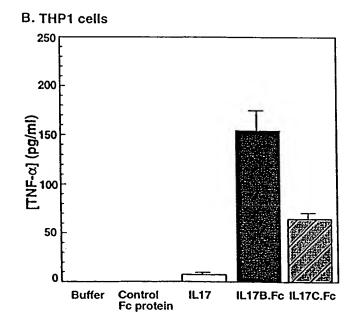
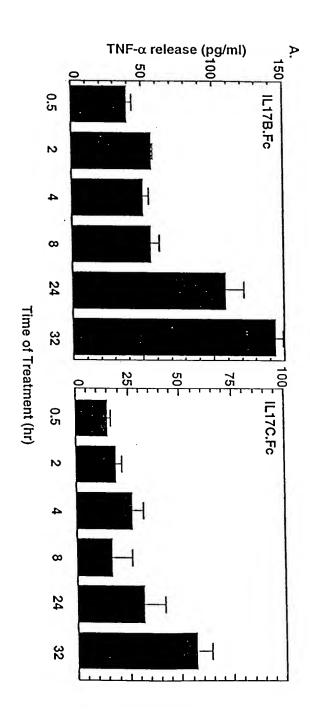
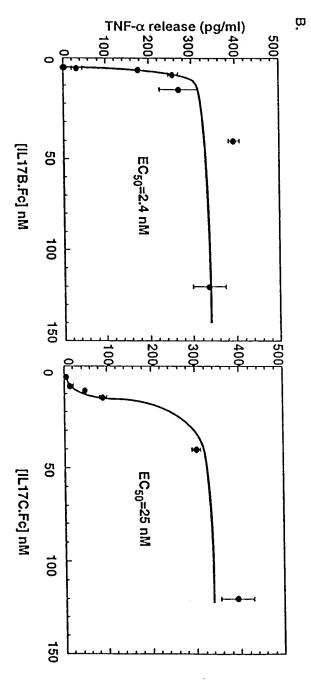


FIGURE 9





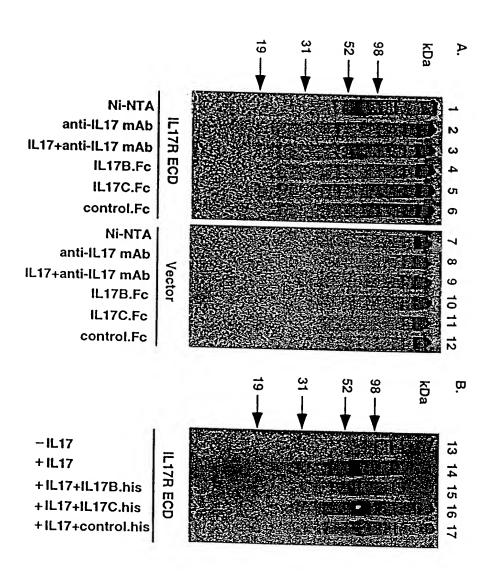


FIGURE 11

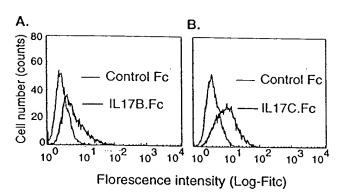


FIGURE 12

### IL-17 induces breakdown and inhibits synthesis of cartilage matrix

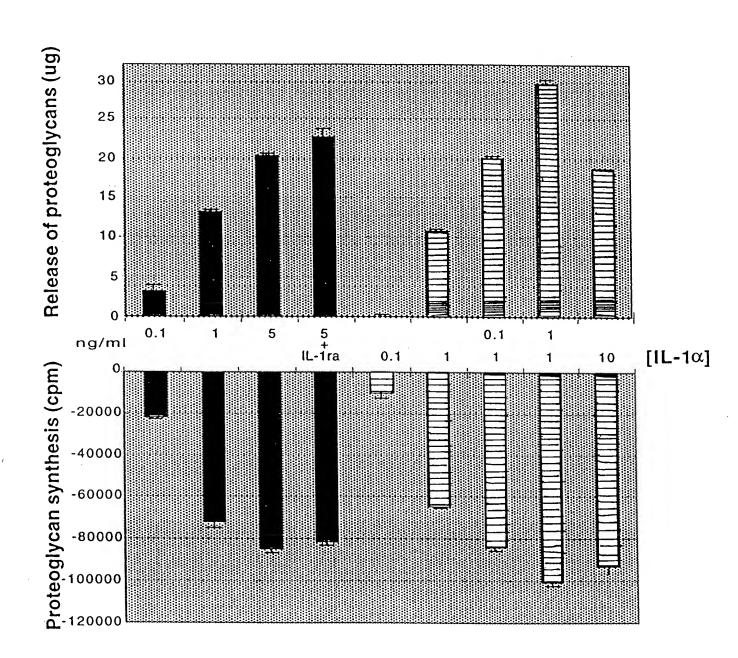


FIGURE 13

### IL-10-induced nitric oxide release

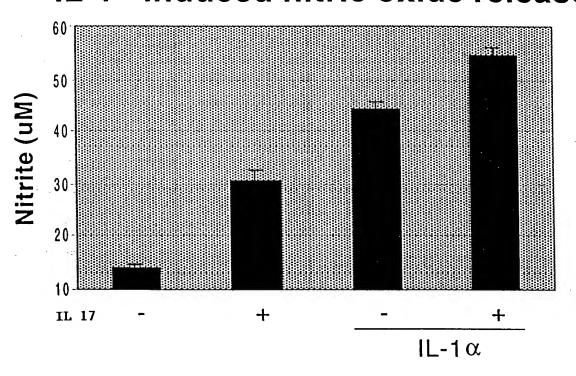
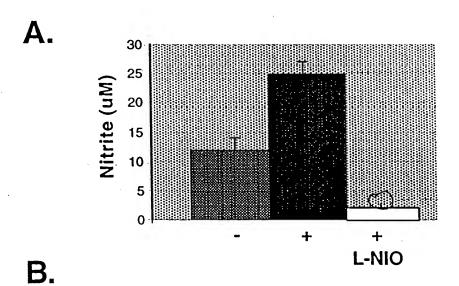
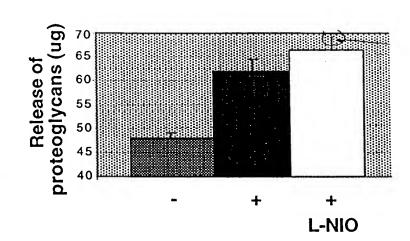


FIGURE 14

# Inhibition of nitric oxide release does not block the detrimental effects of 11. 17 on matrix breakdown or synthesis





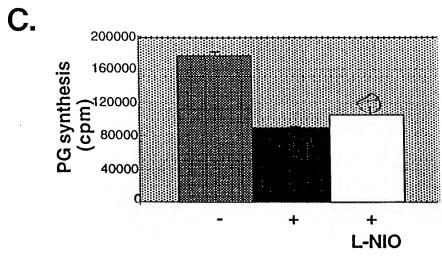
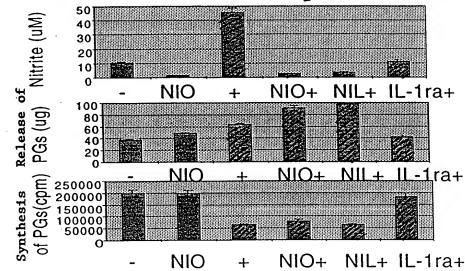


FIGURE 15

## INHIBITION Of NO release enhances ill- &-induced matrix breakdown but not matrix synthesis



## has positive effects on articular cartilage

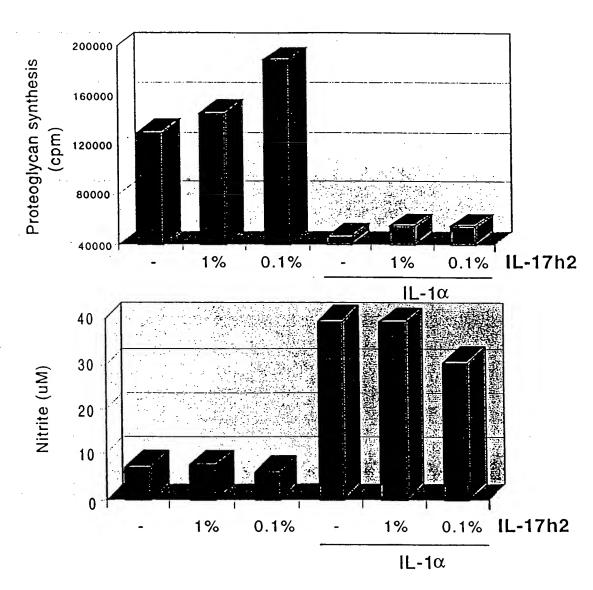


FIGURE 17

### IL 17 homologue (UNQ 561) has detrimental effects on articular cartilage

